



US005893719A

United States Patent [19]
Radow

[11] **Patent Number:** **5,893,719**
[45] **Date of Patent:** **Apr. 13, 1999**

[54] **VARIABLE PATHOLOGICAL AND
SURGICAL EYE MODEL AND METHOD
RELATED THERETO**

[76] **Inventor:** **Brett K. Radow**, 6621 Kanawha Ave.,
Charleston, W. Va. 25304

[21] **Appl. No.:** **08/959,592**

[22] **Filed:** **Oct. 29, 1997**

[51] **Int. Cl.⁶** **G09B 23/28**

[52] **U.S. Cl.** **434/271**

[58] **Field of Search** **434/271**

[56] **References Cited**

U.S. PATENT DOCUMENTS

1,042,815	10/1912	Myers	434/271
1,582,199	4/1926	Walters	434/271
1,630,944	5/1927	Ingersoll	434/271
3,177,593	4/1965	Loeb	434/271

FOREIGN PATENT DOCUMENTS

1082424	3/1984	U.S.S.R.	434/271
1401508	6/1988	U.S.S.R.	434/271
1552222	3/1990	U.S.S.R.	434/271

Primary Examiner—John A. Ricci

Attorney, Agent, or Firm—Robert N. Blackmon

[57] **ABSTRACT**

A structural eye assembly is provided comprising replaceable components exhibiting healthy conditions, pathological states and post-surgical conditions, and a related method thereto. The assembly preferably comprises a spherical eye body of structural (sturdy) soft and somewhat pliable material in the shape of human eye, preferably in an enlarged scale relative to the human eye for the ease of observation of the various structural components. The assembly includes a cornea which is replaceable with a plurality of corneas exhibiting various pathological structures and structural damages. The removable cornea is made of a clear, soft and pliable material to simulate a human cornea. Corneal pathological states are exhibited on various replaceable corneas to allow the educator or physician to selectively demonstrate the pathological state to the student or patient. The crystalline lens also is removable and the assembly includes replaceable lenses which exhibit various pathological structures, such as cataracts, as well as an intraocular lens implant rendition. The eye assembly also contains a liquid filled central cavity to simulate the vitreous humor, and within it vitreous floaters. Also demonstrated by this model are normal and abnormal retinal conditions. Optionally, also shown by this model is a fine layer surrounding the assembly to represent human conjunctiva.

16 Claims, 8 Drawing Sheets

